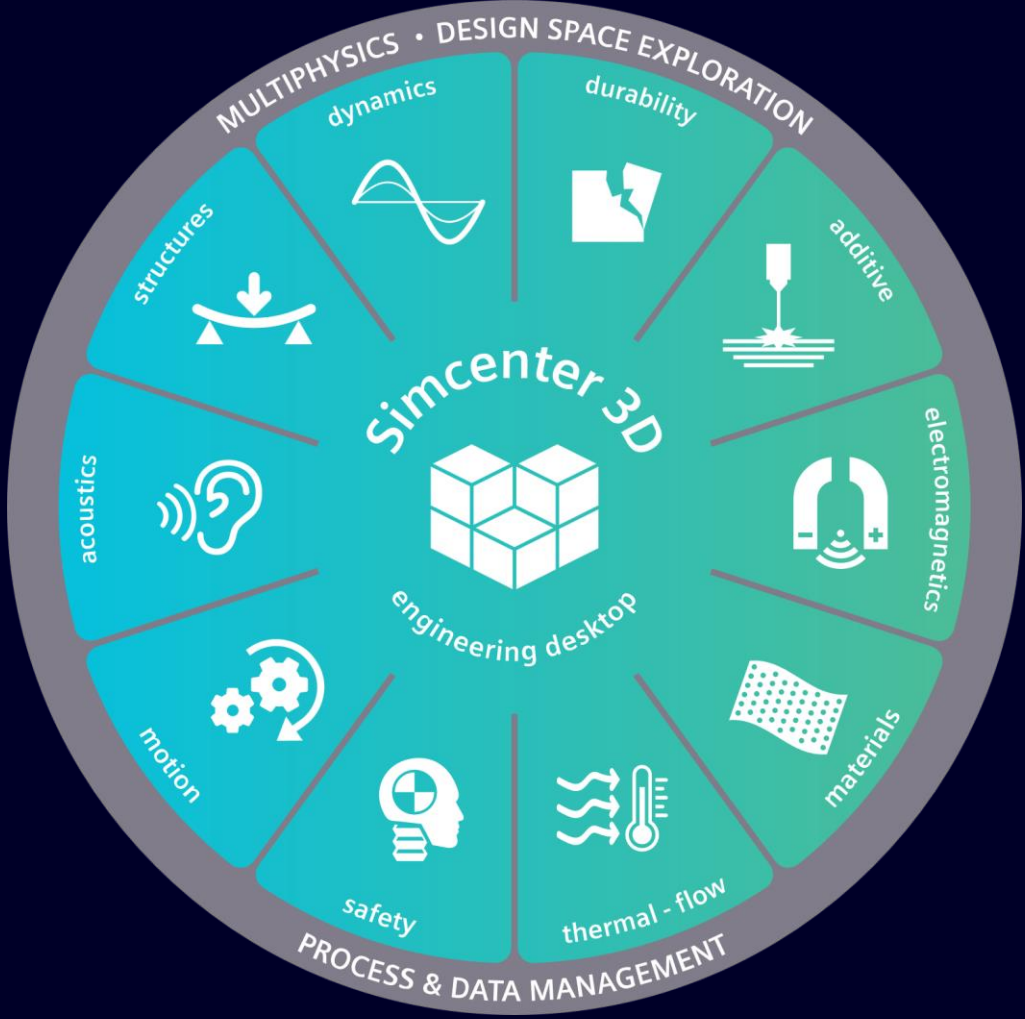# Xcelerator Academy Learning Maps
Your learning: At a Glance

Use our interactive learning maps as a guide to navigate through your content based upon your role then click on the icons throughout to learn more about your delivery options.

Select a role below ⬇

LEARN THE SIMCENTER 3D PLATFORM

CAE Analyst

Teaches CAE analysts the basics of using Simcenter 3D Pre/Post (Engineering Desktop) to model, perform, and evaluate all their simulations.

LEARN SIMCENTER 3D ACOUSTICS

Acoustics Analyst

Teaches acoustics analysts how to use Simcenter 3D Acoustics to analyze acoustic models to optimize the sound quality of products.

LEARN SIMCENTER 3D MOTION

Motion Analyst

Teaches analysts, engineers, and designers how to use Simcenter 3D Motion to animate and analyze kinematic and dynamic motion mechanisms.

GET CERTIFIED

Simcenter 3D Associate Certification

Choose your learning and take your exam to complete the Associate certification.

Simcenter 3D Professional Certification

Choose your learning and take your exam to complete the Simcenter 3D Professional certification.

SIEMENS

Simcenter 3D → At a Glance

CAE Analyst

Simcenter 3D Pre/Post

Fundamentals of Using Pre/Post	Preparing the Model for Analysis	Solving the Model	Reviewing Analysis Results

Processes and Solutions

Use Simcenter 3D Platform!

Simcenter 3D Certification Exam

Siemens Xcelerator Academy Certified

Capital Logic Associate 2022

Click for detailed certification course list

LEARN SIMCENTER 3D ACOUSTICS

Acoustics Analyst

Simcenter 3D Acoustics

Working with Acoustics Models	Acoustics Analysis Applications

Optimize sound quality of products!

LEARN SIMCENTER 3D MOTION

Motion Analyst

Motion Fundamentals	Flexible Body Analysis	Discrete Drivetrain	Controls and Mechatronics Co-simulation

Analyze kinematic and dynamic motion mechanisms!

	Instructor-led training		On-demand training library		Xcelerator Academy Membership		Learning Journey		Standalone Certification Exam

**Virtual lab environment included in offer

Add-on vLab hours available for purchase

**Virtual lab environment included in offer

SIEMENS

Complete Course List: Simcenter 3D Associate

Simcenter 3D Pre/Post

or

Simcenter 3D Pre/Post

+ Pre/Post Processes and Solutions

Pass the exam

Siemens Xcelerator Academy Certified

Simcenter 3D Certified Associate 2022

---

5 Chapters

LEARNING PATH

Fundamentals of using Pre/Post

Learn how to analyze a model and work with analysis data in Simcenter 3D.

PREVIEW CHAPTER
What Can You Do with Pre/Post?

---

9 Chapters

LEARNING PATH

Preparing the Model for Analysis

Learn how to prepare a model for analysis by working with geometry, meshes, connections, assemblies, loads, and boundary conditions.

PREVIEW CHAPTER
Loading a Model into Simcenter 3D

---

4 Chapters

LEARNING PATH

Solving the Model

Learn how to solve a model with the Simcenter Nastran solver using structural analysis types.

PREVIEW CHAPTER
Using Solutions and Subcases

---

6 Chapters

LEARNING PATH

Reviewing Analysis Results

Learn how to display analysis results using post views, graphs, and reports.

PREVIEW CHAPTER
Displaying Results Overview

---

7 Chapters
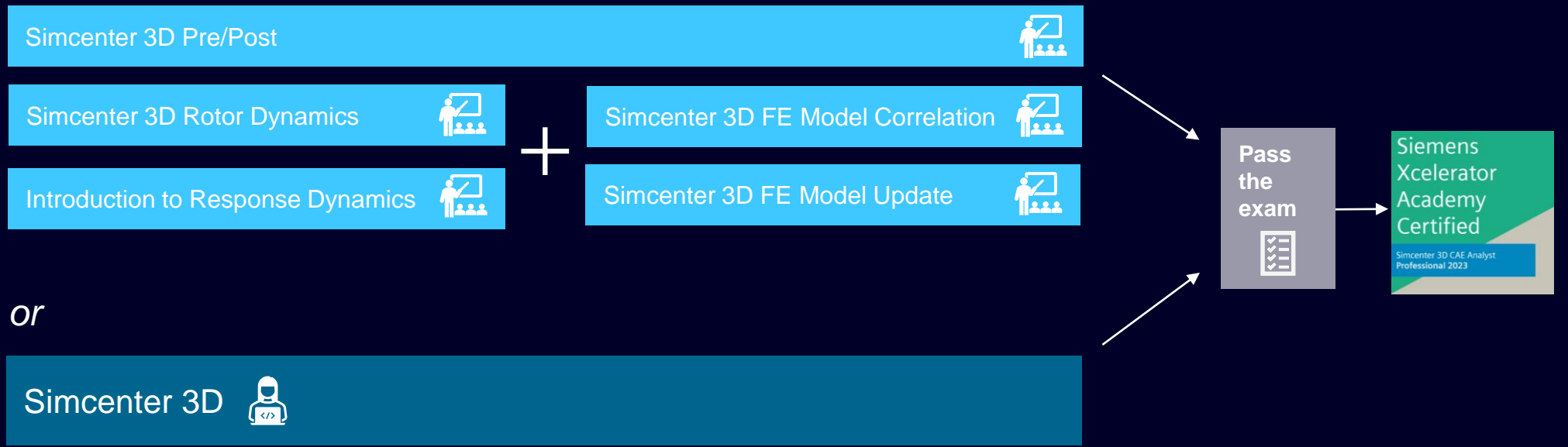
LEARNING PATH

Processes and Solutions

Learn how to analyze models using specialized Simcenter 3D tools.

PREVIEW CHAPTER
Refining a Mesh with Adaptive Meshing

SIEMENS

Complete Course List: Simcenter 3D CAE Analyst Professional Certification

Siemens Xcelerator Academy Certified
Simcenter 3D CAE Analyst Associate 2023

Pass the mandatory prerequisite Simcenter 3D CAE Analyst Associate exam

Simcenter 3D Pre/Post

Simcenter 3D Rotor Dynamics

Introduction to Response Dynamics

+

Simcenter 3D FE Model Correlation

Simcenter 3D FE Model Update

or

Simcenter 3D

Pass the exam

Siemens Xcelerator Academy Certified
Simcenter 3D CAE Analyst Professional 2023

Processes and Solutions - 2212
📖 07 CHAPTERS estimated 4.5 hours

Learn how to analyze models using specialized Simcenter 3D tools.

Simcenter 3D | 2212 | English

Introduction to Response Dynamics - 2212
📖 01 CHAPTERS estimated 2.0 hours

Learn how to use response dynamics to analyze a model's response to an excitation.

Simcenter 3D | 2212 | English

FE Model Correlation - 2212
📖 07 CHAPTERS estimated 7.0 hours

Learn how to prepare physical tests using the pre-test planning tools and how to correlate modal finite element results with experimental data in Simcenter 3D.

Simcenter 3D | 2212 | English

Simcenter 3D Rotor Dynamics - 2206
📖 07 CHAPTERS estimated 4.0 hours

Learn how to model rotors and analyze the model with Complex Modal Analysis, Harmonic Response, Transient Response, and using Superelements.

Simcenter 3D | 2206 | English

FE Model Update - 2212
📖 05 CHAPTERS estimated 3.8 hours

You will learn the key steps of the test-simulation interaction and understand the model update solution process. You will also learn about design variables.

Simcenter 3D | 2212 | English

SIEMENS